

PATENT ABSTRACTS OF JAPAN

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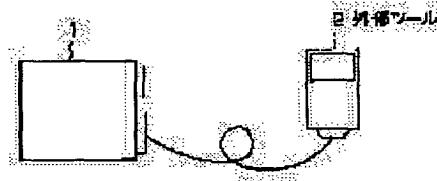
(21)Application number : 09-295399 (71)Applicant : NISSAN MOTOR CO LTD
 (22)Date of filing : 28.10.1997 (72)Inventor : YONEYAMA SHUICHI

(54) MEMORY RELOADABLE DEVICE FOR VEHICLE CONTROL

(57)Abstract:

PROBLEM TO BE SOLVED: To facilitate confirmation of a verification number by providing a means which previously stores a summation value of a control memory part electrically removable and writable by an external tool, and displaying a calculated summation value which is derived by calculating the summation value in the control memory part and the stored summation value onto a displaying means.

SOLUTION: In a device where a control unit (ECM) 1 for engine control controls an auxiliary air valve placed in an auxiliary air passage for bypassing, for example, a throttle valve, and idle rotation speed is automatically controlled to a target value, a control memory is constituted by a flash memory. When any bug is found in an idle rotation speed control program, an external tool 2 is connected with the ECM 1, the external tool 2 sends reloadable data for the control memory, and the control memory in the ECM 1 is rewritten. In this time, by displaying a value stored as a summation value of the control memory and a calculated summation value of the control memory, illegal rewriting is checked.



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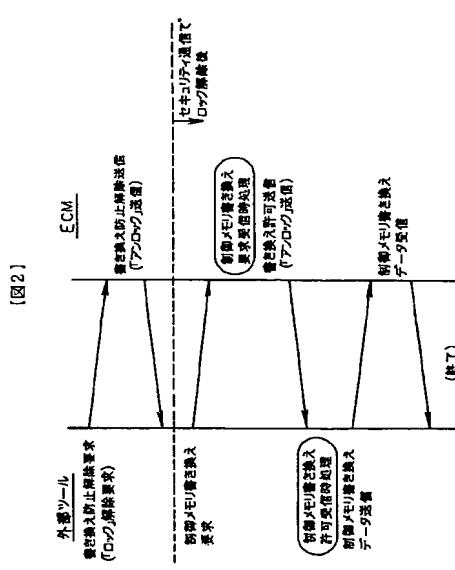
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